



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : H04B 1/707		A1	(11) International Publication Number: WO 00/13334
			(43) International Publication Date: 9 March 2000 (09.03.00)
(21) International Application Number: PCT/EP99/05632		(81) Designated States: JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: 3 August 1999 (03.08.99)			
(30) Priority Data: 98116318.1 28 August 1998 (28.08.98) EP		Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
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(54) Title: RECEIVER AND METHOD OF RECOVERING DATA FROM RADIO SIGNALS

(57) Abstract

A receiver for recovering data for at least one of a plurality of users comprising, a plurality of data detector means (24, 24') coupled to the data store (22), each of which data detector means (24, 24') is operatively associated with one of a plurality of the user specific codes and one of a plurality temporal displacements with respect to an impulse response of a communications channel through which the radio signals have passed, each of the data detector means (24, 24') operating to estimate symbols of the data for one of the users from the received radio signals in combination with the user specific spreading code and the temporal displacement, a signal strength estimation means (26) which operates to determine a relative strength of the received radio signals from which each of the user data symbols was estimated by the data detectors, and a receiver controller (30) which operates to assign the user codes and the temporal displacements to each of the data detectors (24, 24'), wherein the receiver controller (30) operates to re-assign the plurality of spreading codes and the temporal displacements to said data detectors (24, 24') consequent upon the relative strength of the radio signals, thereby facilitating recovery of data symbols for the at least one user.

